

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of work: Estimate for Construction of RCC Drain in R.K Hegde Nagara Surrounding Area in Ward no. 06

		Estimate Cost Rs.						5000000.00	
SI No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earth work excavation by manual means in Ordinary Soil soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications.MORTH chapter 3. No. 141/ Item No. 19.1/ PWD SR 2016-17	Cum							
	For RCC Drain								
	Hegadenagara Cross Roads		2	190.00	0.90	0.75	256.50		
	Culverts		7	6.20	2.10	1.20	109.37		
							365.87	86.92	31801.00
	Basic Rate	82.00							
	Area Weightage @ 6%	4.92							
	Total	86.92							
2	KSRB-4-1.3 : Providing and laying in position plain cement concrete of mix M 1:4:8 with OPC cement at 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @0.57cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2, No. 12/ Item No. 4.3/ PWD SR 2016-17	Cum							
	RCC Drain								
	Hegadenagara Cross Roads		2	190.00	0.90	0.15	52.67		
	Culverts		7	6.20	2.10	0.15	14.09		
	For Kerb Stone		2	190.00	0.25	0.10	9.51		
	For Concrete Road		1	42.00	6.00	0.15	38.05		
							114.32	5159.02	589757.00
	Basic Rate	4867.00							
	Area Weightage @ 6%	292.02							
	Total	5159.02							
3	KSRB 5.2.3 Providing and constructing granite / trap / basalt Size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.13 Page No. 23/ Item No. 5.6/ PWD SR 2016-17	cum							
	Culverts		7X2	6.20	0.60	0.45	23.44		
							23.44	4438.22	104014.00
	Basic Rate	4187.00							
	Area Weightage @ 6%	251.22							
	Total	4438.22							

SI No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
4	KSRB 5.3-3 Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5-1.13 Page No. 23/ Item No. 5.9/ PWD SR 2016-17	Sqm							
	Culverts		7X2	6.20	0.50	0.45	19.53		
							19.53	5305.30	103613.00
	Basic Rate	5005.00							
	Area Weightage @ 6%	300.30							
	Total	5305.30							
5	KSRB 4-6.7 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1 m in depth including cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 Page No. 16/ Item No. 4.34/ PWD SR 2016-17	Sqm							
	For RCC Drains								
	Hegadenagara Cross Roads		2X4	190.00	0.60		912.00		
	Culverts		7	6.20	0.60		26.04		
	For Sides		7X2	6.20	0.23		19.96		
			7X2	1.65	0.23		5.31		
							963.32	271.36	261406.00
	Basic Rate	256.00							
	Area Weightage @ 6%	15.36							
	Total	271.36							
6	KSRB 4-1.7 : : Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregates @0.56cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1.4.2/P No. 13/ Item No. 4.7/ PWD SR 2016-17	cum							
	Culverts		7X2	6.20	0.50	0.10	4.34		
	Vent Bed		7	6.20	0.60	0.10	2.60		
							6.94	5598.92	38879.00
	Basic Rate	5282.00							
	Area Weightage @ 6%	316.92							
	Total	5598.92							
7	KSRB 15.1.3: Providing FLush pointing to coursed stone masonry with cement mortar 1:3, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. Page No. 109/ Item No. 15.1/ PWD SR 2016-17	Sqm							
	Culverts		7X2	6.20		0.50	43.40		

SI No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
							43.40	102.82	4462.00
	Basic Rate	97.00							
	Area Weightage @ 6%	5.82							
	Total	102.82							
8	KSRB 4.2.2 : Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @0.459cum with superplastesisre @ 3lts conforming to IS9103-1999Reffirmed machine mixed exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, walls(any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour HOM of machinery, curing, complete as per specifications. Specification. No. KBS 4.1,4.6, No. KBS 4.1,4.6, No. 13/ Item No. 4.11/ PWD SR 2016-17	Cum							
	For RCC Drains								
	Bottom Concrete		2	190.00	0.90	0.10	34.20		
	Side Walls		2X4	190.00	0.15	0.60	136.80		
	Culverts		7	6.20	1.80	0.23	17.97		
							188.97	6371.66	1204037.00
	Basic Rate	6011.00							
	Area Weightage @ 6%	360.66							
	Total	6371.66							
9	KSRB 4.9.2:providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications.Specification No. KBS 4.6.3 Page No. 17/ Item No. 4.46.2/ PWD SR	Qtl							
	0.70Ton/Cum		0.070	188.97			13.23	64243.42	849795.00
	Basic Rate	60607.00							
	Area Weightage @ 6%	3636.42							
	Total	64243.42							

SI No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
10	5.29(b) Providing and fixing pre cast solid cement concrete kerb stones made out of C.C 1:2:4 with top and bottom width 114 and 165mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including formwork curing, including, cost of all materials, labour hire charges of machinery, loading unloading, lead and lift, transportation etc, complete. Page No. 25/ Item No. 5.30/ PWD SR 2016-17	Sqm							
	Hegadenagara Cross Roads		2	190.00			380.00		
					1 e 190/0.45		380.00		
							844.44	331.78	280170.00
	Basic Rate	313.00							
	Area Weightage @ 6%	18.78							
	Total	331.78							
11	KSRB 15-17.5: Applying priming coat over new wood surface and / or wood based surface preparing the surface after thoroughly cleaning oil, grease, dirt, and foreign matter, sand papering and knotting ready mix paint including cost of materials, labour, complete as per specifications. Page No. 118/ Item No. 15.59 / PWD SR 2016-17	Sqm							
	Hegadenagara Cross Roads		2	190.00		0.30	114.00		
							114.00	43.46	4954.00
	Basic Rate	41.00							
	Area Weightage @ 6%	2.46							
	Total	43.46							
12	KSRB 15-17.6: Providing and applying painting two coats (excluding priming coat) on new wood surface and / or wood based surface with enamel paint to give an even shade, cleaning the surface of all dirt, dust and foreign matter, sand papering including cost of materials, labour, complete as per specifications. Page No. 119/ Item No. 15.60.1 / PWD SR 2016-17								
	Hegadenagara Cross Roads		2	190.00		0.30	114.00		
							114.00	89.04	10151.00
	Basic Rate	84.00							
	Area Weightage @ 6%	5.04							
	Total	89.04							
13	Precast slab 20mm and down size for slab (including steel reinforcement) including centring and shuttering machine mixed concrete laid in layers not exceeding 15cms thick well compacted cost of all materials labour HOM of machineries curing complete as per specifications c.c 1:1.5:3 Including all cost of Matirial (DATA RATE ENCLOSED) 10cm thick RCC pre cast slab	Sqm							
	Hegadenagara Cross Roads		2	190.00	0.90		342.00		
							342.00	2100.00	718200.00
	Data Rate	1856.67							

SI No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
14	Providing and laying cement concrete using 20mm and down size granite jelly of ready mixed concrete (RMC) for R.C.C works laid in 15cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, form works and scaffoldings to withstand pumping of concrete, with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) Ready mixed Cement concrete M-20 for raft foundation, column footing, main and secondary beams. Page No. 18/ Item No. 4.48/ PWD SR 2016-17	Cum							
			1	42.00	6.00	0.15	37.80		
							37.80	6231.74	235560.00
	Basic Rate	5879.00							
	Area Weightage @ 6%	352.74							
	Total	6231.74							
15	Providing groove cutting for Concrete pavement width of 5mm to 10mm and depth 80mm- 100mm including cost of cutting machine, generator & HOM of machinery, including cost of blade, coolant etc., including cleaning of groove & providing sand and hot bitumen fillars, and filler metal etc., including cost of conveyance of all materials, labour, lead and lift charges and all other incidental charges as per drawing and as per specifications. (Page No 178., I.No.22.8 of PWD S.R 2016-17	Rmtr							
			15	6.00			90.00		
							90.00	121.90	10971.00
	Basic Rate	115.00							
	Area Weightage @ 6%	6.90							
	Total	121.90							
16	Vaccum De- writing with vaccum pump and suction mat and compaction with skin flater clubbed with floatiog disc including cost of generator, HOM of machinery Sereed Vibratory Power Floaterblade and diisc etc. with all lead and lift No. 171/ Item No. 22.7/ PWD SR 2016-17	Sqm							
	Thimmaraiappa House Road		1	42.00	6.00		252.00		
							252.00	95.40	24041.00
	Basic Rate	90.00							
	Area Weightage @ 6%	5.40							
	Total	95.40							

SI No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
17	Lead for Disposal of Debris shall be payable at carage rates by Mechanical means including loading and unloading. From 0.00 to 2.00 Km (Page No.123,	Cum							
			Qty. Vide Item No. 1				373.97		
							373.97	73.12	27345.00
	Basic Rate Lead Charges Upto 2.00 Kms	5.12							
	PWD SR 2015-16 (P.118/I.17.1) For loading and unloading	68.00							
	Total	73.12							
							Grand Total		4500942.00
18	For 10% KRIDL Charges								450094.00
19	For 1% Labour Cess								45009.00
20	Miscellaneous Charges	L/S							3955.00
									5000000.00

Certificate:

- 1 The work spot has been inspected and the work is found necessary.
- 2 This estimate is prepared as per PWD SR of 2016-17
- 3 The provisions were made in this estimate are necessary and adequate.
- 4 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 08/Thanisandra

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Sub Division

ADMINISTRATIVE APPROVAL	
Accorded For Rs.	<i>Fifty lakhs only</i>
Head of A/c.	<i>P-1878</i>
Div. Ref. No.	<i>57/17-18</i>
Date	<i>11/12/17</i>
AE	<i>EE(BTP)</i>

Technical Sanction
Accorded For *50.00 lakhs Rs.*
Head of A/c. *P-1878*
GER NO : *428* Dt. *11/12/17*

TA CE (YNK)